

**11.** Write a linear equation for each table relating  $x$  and  $y$ .

**a.**

|     |   |   |    |    |
|-----|---|---|----|----|
| $x$ | 0 | 3 | 6  | 10 |
| $y$ | 2 | 8 | 14 | 22 |

**b.**

|     |    |   |    |     |
|-----|----|---|----|-----|
| $x$ | 0  | 3 | 6  | 10  |
| $y$ | 20 | 8 | -4 | -20 |

**c.**

|     |   |   |    |    |
|-----|---|---|----|----|
| $x$ | 2 | 4 | 6  | 8  |
| $y$ | 5 | 8 | 11 | 14 |

**d.**

|     |    |    |   |    |
|-----|----|----|---|----|
| $x$ | 0  | 3  | 6 | 9  |
| $y$ | 20 | 11 | 2 | -7 |

**For Exercises 12–17, find an equation for the line that satisfies the conditions.**

**12.** Slope 4.2;  $y$ -intercept  $(0, 3.4)$

**13.** Slope  $\frac{2}{3}$ ;  $y$ -intercept  $(0, 5)$

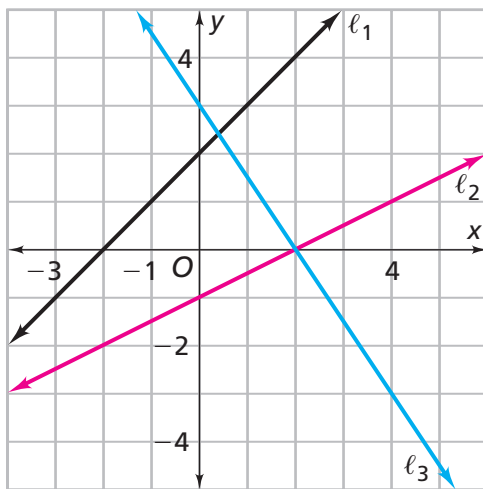
**14.** Slope 2; passes through  $(4, 12)$

**15.** Passes through  $(0, 15)$  and  $(5, 3)$

**16.** Passes through  $(-2, 2)$  and  $(5, -4)$

**17.** Parallel to the line with equation  $y = 15 - 2x$  and passes through  $(3, 0)$

**18.** Write an equation for each line.



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